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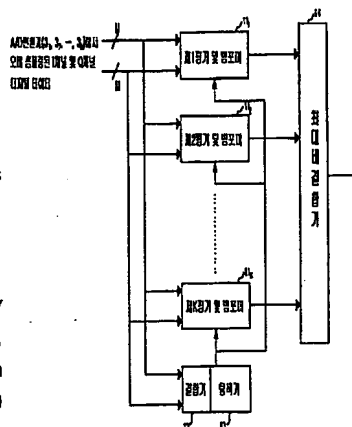
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(54) RAKE RECEIVER FOR SMART ANTENNA SYSTEM USING CDMA COMMUNICATION MODE

(57) Abstract:

PURPOSE: A RAKE receiver for smart antenna system using CDMA communication mode is provided to stably detect multi paths of signals though the receipt direction of the signals is severely changed by movement of user.

CONSTITUTION: A RAKE receiver for smart antenna system using CDMA communication mode comprises plural array antenna elements(A1,...,Am), plural low noise amplifiers(1), plural down converters(2), plural A/D converters(3), first to Kth finger and beam former(11), a combiner(12), a detector(13) and a maximum-ratio combiner(14). The amplifiers(1) amplifies signals received from the antenna elements. The down converters(2) converts signals amplified by the amplifiers into base band signals of I and Q channel signals. The A/D converters(3) converts the signals converted by the down converters into digital signals having higher data rate than that of system diffusion code.



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